

Work Order ID 92898

March-19-13 10:52:06 AM

92898

Page 1

Item ID: 646.4001

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: AS350 Cable Cutter

Stop

NS2

Start Date: 3/19/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/02/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: MCL

Date: 13-03-19 Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr								
646.4000	A								
100		JB							
100	DOCUMENT CONTROL								
DC	Memo	0.00	DAS						
Document Control	Photocopy bluefile & type labels per PPP 646.4001		16						

110	Pick Kit	0.00
-----	----------	------

110

Packaging

Packaging

1 13-03-22JB

120	QC4- 100% Inspect kits for completeness	0.00
-----	---	------

120

QC

Quality Control

DAS
16
8-23
13/04/11

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: Date:

QA Closed: _____ Date: _____

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>			
				Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>			
				Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>			
				Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector	
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio							
				<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions							
				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge							
				<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled							
				<input type="checkbox"/> Other							

Work Order ID 92898

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92898

Page 2

Item ID: 646.4001

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: AS350 Cable Cutter

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NS2

Start Date: 3/19/13 Start Qty: 1.00

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Cust Item ID:

Required Date: 4/02/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130*	Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: _____								
140 *140*	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

/ 8 13-04-11

MC 13-04-11

MC 5 13-04-11

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>			
Part No. _____											
NCR No. _____											
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
Bending				General							
Centre Not Concentric to O/S				Grain					Ovalized		
Cracks				Hardware					Pressure/Forced		
Crushed/Crimped				Inspection Incomplete					Temperature/Cure		
Cuffs				Instructions Incomplete/Unclear					Part Incorrect		
Heat Treat				Maintenance					Part Lost/Missing		
Inspection Strip in Tube				Mislabeled					Part Moved		
Ripples in Bend				Misread					Positioned Wrong		
Torque Waves in Extrusion				Offset					Power Loss/Surge		
Turning Sequence				Out of Calibration					Other		
Wave/Twist in Tube				Out of Sequence							
				Outside Dimensions							

Picklist Print

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Page 1

Work Order ID: 92898

92898

13

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301		Manufactured	No				Each	0.0000	**	1	93247		
<i>15</i> *646 3301* Upper Cutter Assembly													
646.3001		Manufactured	No				Each	0.0000	**	1	m125083	SP	
<i>5</i> *646 3001* Lower Cutter Assembly													
646.2910		Manufactured	No				Each	0.0000	**	1	120083		
<i>5</i> *646 2910* Deflector													
646.3810		Manufactured	No				Each	0.0000	**	2	m125083	RP	
<i>5</i> *646 3810* Bracket													
646.3510		Manufactured	No				Each	0.0000	**	1	m120083		
<i>5</i> *646 3510* Strut													
646.3511		Manufactured	No				Each	0.0000	**	1	120083		
<i>5</i> *646 3511* Strut													
646.3512		Manufactured	No				Each	0.0000	**	1	120083		
<i>5</i> *646 3512* Strut													
646.3513		Manufactured	No				Each	0.0000	**	1	m120083		
<i>5</i> *646 3513* Strut													

3 Y MS20470A05-7 added at April control # 86033

see 2nd sheet

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS							
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other					
Part No. _____ NCR No. _____												
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector			
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio		<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	<input type="checkbox"/> Other

Picklist Print

Page 2

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Work Order ID: 92898

92898
646 4001

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

10,454.00

134 ✓

**

JB

NAS1149F0332P

WASHER

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
GA	182	
122063	182	
ST294	269	
122063	269	
ST295	3	
123352	3	
st510	10000	
123900	10000	

123900

MS21042L3

Purchased

No

Each

6,289.00

63 ✓

**

JB 13-03-22

MS21042L3

Nut

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FP001	3	
122141	3	
GA	212	
122452	212	
ST314	268	
117885	32	
119017	55	
119075	138	
123265	43	
ST506	5806	
123900	1806	
124291	4000	

123900

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS							
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector			
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio		<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	<input type="checkbox"/> Other

Picklist Print

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Work Order ID: 92898

92898
646 4001

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3110

Manufactured No Each 10.0000 **

646 3110

Channel

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST139B	10	
92768	10	

1 ✓ 1/2

646.3710

Manufactured No Each 0.0000 **

646 3710

Doubler

1 92768

646.3210

Manufactured No Each 0.0000 **

646 3210

Support

1 93488 ✓

646.3713

Manufactured No Each 0.0000 **

646 3713

Gusset

1 ✓ BS3208 ✓

MS24694-S51

Purchased No Each 196.0000 **

MS24694-S51

Screw

5 ✓ 10 ✓

AN3-13A

Purchased No Each 106.0000 **

AN3-13A

Bolt

1 123741 ✓

March-19-13 10:52:11 AM

Shop Packet Print

Page 3

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: Date:

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
			Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>				
			Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>				
			Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>				
			Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
Bending	General			Bend <input type="checkbox"/>	Grain <input type="checkbox"/>	Ovalized <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>				
Centre Not Concentric to O/S				BOM/Route <input type="checkbox"/>	Hardware <input type="checkbox"/>	Over/Under tolerance <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>				
Cracks				Broken/Damaged <input type="checkbox"/>	Inspection Incomplete <input type="checkbox"/>	Part Incorrect <input type="checkbox"/>	Weld <input type="checkbox"/>				
Crushed/Crimped				Burrs <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>	Part Lost/Missing <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>				
Cuffs				Contamination <input type="checkbox"/>	Maintenance <input type="checkbox"/>	Part Moved <input type="checkbox"/>					
Heat Treat				Countersink <input type="checkbox"/>	Mislabeled <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/>					
Inspection Strip in Tube				Cut Too Short <input type="checkbox"/>	Misread <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/>	Other <input type="checkbox"/>				
Ripples in Bend				Drill Holes <input type="checkbox"/>	Offset <input type="checkbox"/>						
Torque Waves in Extrusion				Drawing <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>						
Turning Sequence				Finish <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>						
Wave/Twist in Tube				Folio <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>						

Picklist Print

March-19-13 10:52:11 AM

Page 4

Work Order ID: 92898

92898
646 4001

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

AN3-4A

Purchased No Each 651.0000 10 ✓

**

AN3-4A ✓

Bolt

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST350	318	
120308	80	
122814	38	
124858	200	
ST512	333	
120770	200	
123900	133	

JB

CR3213-5-3

Purchased No Each 300.0000 **

14 ✓

CR3213-5-3 ✓

Cherry Rivet

CR3213-5-03

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST329	300	
123785	300	

123648

1

M120U83 ✓

646.3711

Manufactured No Each 0.0000 **

Clip

646.3712

Manufactured No Each 0.0000 **

Clip

646.3811

Manufactured No Each 0.0000 **

Radius Block

1

M120U83 ✓

1

M120U83 ✓

MS20170ADS-5.5 ✓

8

JB 123425 JB 13-03-22

NCR: Yes / No

WORK ORDER NON-COMPLIANCE / UPDATE

DQA: Date:

QA Closed: _____ Date: _____

Work Order:				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>		
				Use-as-is <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>			
Part No. _____				Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>			
NCR No. _____				Work Order Update <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector	
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio							
				<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions							
				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge							
				<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled							
				<input type="checkbox"/> Other							

Picklist Print

March-19-13 10:52:11 AM

Page 5

Work Order ID: 92898

92898
646 4001

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-6A

Purchased No

Each 483.0000

2 ✓

**

*JAN3-6A**
Bolt

JB

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST350	300	
124296	300	
ST351	61	
117441	34	
121166	13	
122993	10	
123831	4	
ST512	122	
122814	122	

MS24694-S55

Purchased No

Each 119.0000

**

Screw

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST303	119	
123758	1	
124296	118	

646.3610

Manufactured No

Each 0.0000

**

Filler

646.3714

Manufactured No

Each 0.0000

**

Gusset

646 3610

124296

M120Vf3

126083

13-03-22

13/7/13

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____		DISPOSITION			AGAINST DEPARTMENT/PROCESS														
Part No. _____		Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Use-as-is <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Machining <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Finishing <input type="checkbox"/>	Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/>	Quality <input type="checkbox"/>	Other <input type="checkbox"/>
NCR No. _____		Work Order Update <input type="checkbox"/>																	
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description			Sign & Date	Verification		QC Inspector						
Doc/Data <input type="checkbox"/>																			
Equip/Tooling <input type="checkbox"/>																			
Operator <input type="checkbox"/>																			
Material <input type="checkbox"/>																			
Setup <input type="checkbox"/>																			
Other <input type="checkbox"/>																			
Process <input type="checkbox"/>																			
Supplier <input type="checkbox"/>																			
Training <input type="checkbox"/>																			
Unapproved <input type="checkbox"/>																			
FAULT CATEGORY																			
Landing Gear				General															
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions											<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other				

Picklist Print

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Page 6

Work Order ID: 92898

92898
646 4001

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-6

Purchased

No

Each

1.836.000

8

**

S *MS20470AD5-6* ✓
Rivet

JB

646.3812

Manufactured

No

Each

0.0000

**

2

105433

Gusset Bracket

AN3-3A

Purchased

No

Each

408.0000

4

**

1200F3

Bolt

S *AN3-3A*

JB

646.3813

Manufactured

No

Each

10.0000

**

1

123831

S *646 3813* J
Strut Bracket

13-03-20

JB

Location

Loc Qty

Loc Code

ST350

408

123831

108

124221

200

124552

100

93252

93252

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: Date: ,

QA Closed: Date:

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other				
Part No. _____ NCR No. _____											
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other							

Picklist Print

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Page 7

Work Order ID: 92898

92898

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

Each

625.0000

18 ✓

**

JB

MS21047-3

NUT PLATE

Location	Loc Qty	Loc Code
ST316	625	
123268	75	
123301	50	
123522	500	

CCR264SS3-02

Purchased

No

Each

1,100.000

**

36 ✓

123522

Rivet, Cherry

Location	Loc Qty	Loc Code
ST327	1100	
106578	100	
123785	600	
124231	200	
124259	200	

AN3-5A

Purchased

No

Each

1,096.000

2 ✓

123785

Bolt

Location	Loc Qty	Loc Code
FP001	32	
122800	32	
GA	120	
117423	120	
ST350	22	
120187	22	
ST512	922	
122416	122	
124561	800	

122416

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ **Date:** _____

Work Order: _____			DISPOSITION			AGAINST DEPARTMENT/PROCESS					
			Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>				
Part No. _____											
NCR No. _____											
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio		<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions		<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	
										<input type="checkbox"/> Other	

Picklist Print

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Page 8

Work Order ID: 92898

92898

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3715

Manufactured No

Each 0.0000

2

**

*S *646 3715**

Strut Doubler

MS27039-1-12

Purchased No

Each 235.0000

6

**

*S *MS27039-1-12**

Screw

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz	235	
------	-----	--

100993

235

Each 0.0000

100993

1

**

646.3716

Manufactured No

Each 0.0000

1

*S *646 3716**

Gauge Bracket

MS20426AD5-7

Purchased No

Each 865.0000

**

*S *MS20426AD5-7**

Rivet

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST334	865	
-------	-----	--

101340

865

Each 95.0000

101340

2

**

MS24694-S54

Purchased No

Each 95.0000

1

*S *MS24694-S54**

Screw

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST303	95	
-------	----	--

123900

95

124859

20

75

123900

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: Date:

QA Closed: Date:

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>			
				Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>			
				Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>			
				Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio							
				<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions							
				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge							
				<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled							
				<input type="checkbox"/> Other							

Picklist Print

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Work Order ID: 92898

92898
646 4001

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-21

Purchased

No

Each

387.0000

4

**

*S *MS27039-1-21* ✓*

SCREW

JB

Location	Loc Qty	Loc Code
ST306	87	<i>115935</i>
115935	87	
ST506	300	
124326	300	

MS27039-1-20

Purchased

No

Each

500.0000

2

**

*S *MS27039-1-20* ✓*

Screw

JB

Location	Loc Qty	Loc Code
st510	500	<i>124326</i>
124326	500	

MS27039-1-19

Purchased

No

Each

1,102.000

22

**

*S *MS27039-1-19* ✓*

Screw

JB

Location	Loc Qty	Loc Code
ST306	102	122814
122814	2	
123522	100	
ST506	1000	<i>124326</i>
124326	1000	

646.3717

Manufactured

No

Each

10.0000

1

**

*S *646 3717* ✓*

Doubler

JB

13-03-20

Location	Loc Qty	Loc Code
ST139A	10	<i>93171</i>
93171	10	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS						
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio		<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Other	

Picklist Print

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Page 10

Work Order ID: 92898

92898

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3718

Manufactured No

Each 0.0000

2

**

93366

W

Custom Washer

646.3719

Manufactured No

Each 20.0000

2

**

JB

646 3719

Doubler

MS27039-1-10

Purchased No

Location Loc Qty Loc Code

ST139B
93289

20

20

Each 359.0000

**

2

13-03-20

Screw

MS27039-1-10

Location Loc Qty Loc Code

GA
120449
ST305
122815
124859
ST308
123522
ST506
124326

100

100

101

1

100

18

18

140

140

13-03-20

124326

NCR: Yes / No

WORK ORDER NON-COMPLIANCE / UPDATE

DQA: Date: .

QA Closed: _____ Date: _____

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>			
				Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>			
				Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>			
				Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio							
				<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions							
				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge							
				<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled							
				<input type="checkbox"/> Other							

Picklist Print

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Page 11

Work Order ID: 92898

92898

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-11A

Purchased

No

Each

792.0000

8

**

JB 13-03-20

*S *AN3-11A**

Bolt

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST351	192	110865
	42	
	150	
ST512	600	
	100	
	200	
	300	

600.0990

Purchased

No

Each

0.0000

1

**

m120051

*S *600 0990**

Magnabond 6398 Part A (One 4 oz can)

600.0991

Purchased

No

Each

0.0000

1

**

m120051

*S *600 0991**

Magnabond 6398 Part B (One 4 oz can)

600.1012

Purchased

No

Each

0.0000

1

**

m125051

*S *600 1012**

Sealant (One 6 oz Semikit)

600.0129

Purchased

No

Each

0.0000

1

**

8 FT
m120031

*S *600 0129**

VHB Tape

600.1013

Purchased

No

Each

0.0000

5

**

125164 C13/4/10 (1)

*S *600 1013**

Primer

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____		DISPOSITION			AGAINST DEPARTMENT/PROCESS					
Part No. _____		Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Use-as-is <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>		
NCR No. _____		Work Order Update <input type="checkbox"/>	Machining <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Finishing <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>		
			Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Supplier <input type="checkbox"/>	Other <input type="checkbox"/>			
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector	
Doc/Data										
Equip/Tooling										
Operator										
Material										
Setup										
Other										
Process										
Supplier										
Training										
Unapproved										
FAULT CATEGORY										
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Other		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled

Picklist Print

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Page 12

Work Order ID: 92898

92898

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3910

Manufactured No

Each 90.0000

4

**

JB

646 3910 ✓

Shim

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST139d	90	
	90	

646.3911

Manufactured No

Each 29.0000

1

93238

**

JB

646.3912

Manufactured No

Each 91.0000

4

93362

**

JB

646.3913

Manufactured No

Each 30.0000

1

93423

**

JB 13-03-20

646 3913 ✓

Shim

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST139d	91	
	91	

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS						
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other				
Part No. _____		NCR No. _____									
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions						<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Other	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled

Picklist Print

March-19-13 10:52:13 AM

Page 13

Work Order ID: 92898

92898

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

Each

151.0000

2

**

JB

AN3-12A

Bolt

Location	Loc Qty	Loc Code
GA	6	
122407	6	
ST351	45	
114536	1	
123352	44	
ST512	100	
123759	100	123759

MS27039-1-16

Purchased

No

Each

106.0000

2

**

JB 13-03-20

Screw

MS27039-1-16

Location	Loc Qty	Loc Code
ST306	106	
121444	6	
122993	100	121444

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: Date: .

QA Closed: _____ **Date:** _____

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>			
				Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>			
				Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>			
				Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
<input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio							
				<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions							
				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge							
				<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled							
				<input type="checkbox"/> Other							

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO 03079						SHEET 1	JF 1
DWG NO. 646.4000			REV: A	PREPARED BY: N.CAP	DATE: 03/21/11		EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.
DWG TITLE: AS350 CABLE CUTTERS KIT							
APPROVED BY:	ENGR: <i>P. Brano</i>	MFG: <i>David Bohm</i>	QC: <i>Thomas J. Sosa</i>	EFF: NEXT ORDER			
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT					

SHEET 1, BOM, IS:

92898 MLJ
13-03-19

REF	REF	REF	65	647.5701	GPS MOUNT KIT		
	6	64	6013151	WASHER	NS2497642P		
	3	63	6012911	SCREW	NS24694553		
2	2	62	6012637	SCREW	NS27039-1-16		
2	2	61	6012763	BOLT	AN3-12A		
1	1	60	646.3913	SHIM			
4	4	59	646.3912	SHIM			
1	1	58	646.3911	SHIM			
4	4	57	646.3910	SHIM			
5	5	56	600.0103	PRIMER			
8 FT	8 FT	55	600.0129	VHB TAPE			
1	1	54	600.0102	SEALANT	PR-1423 CLASS B		
4004	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC

1	1	53	600.0991	WASHERNS 6098 PART B			
1	1	52	600.0990	WASHERNS 6098 PART A			
8	8	51	6012826	BOLT		AN3-1A	
2	2	50	646.3814	WIPER BRACKET			
2	2	49	6012910	SCREW	NS27039-1-18		
2	2	48	6011365	SCREW	NS27037-1-19		
2	2	47	646.3719	DOUBLER			
2	2	46	646.3718	CUSTOM WASHER			
1	1	45	646.3717	DOUBLER			
22	22	44	6011948	SCREW	NS27039-1-19		
2	2	43	6011952	SCREW	NS27039-1-20		
4	4	42	6011956	SCREW	NS27039-1-21		
2	2	41	6012829	SCREW	NS24694554		
2	2	40	6012831	RIVET	NS2470403-7		
1	1	39	646.3716	GAUGE BRACKET			
6	6	38	6011953	SCREW	NS27039-1-12		
2	2	37	646.3715	STRUT DOUBLER			
2	2	36	6012824	BOLT	AN3-5A		
36	36	35	6012277	RIVET	NS24694553		
18	18	34	600.0795	NUTPLATE	NS28047-3		
3	3	33	6012565	RIVET	NS2470403-7		
1	1	32	646.3813	STRUT BRACKET			
4	4	31	6012822	BOLT	AN3-3A		
2	2	30	646.3812	GUSSET BRACKET			
8	8	29	6012564	RIVET	NS2470403-6		
1	1	28	646.3714	GUSSET			
1	1	27	646.3610	FILLER			
1	1	26	6012830	SCREW	NS24694553		
2	2	25	6012825	BOLT	AN3-6A		
1	1	24	646.3811	RADIUS BLOCK			
1	1	23	646.3712	CLIP			
1	1	22	646.3711	CLIP			
8	8	21	6012832	RIVET	NS2470403-5		
14	14	20	6012020	RIVET	NS223-5-3		
10	10	19	6012823	BOLT	AN3-4A		
1	1	18	6012827	BOLT	AN3-3A		
5	5	17	6012912	SCREW	NS24694553		
1	1	16	646.3713	GUSSET			
1	1	15	646.3210	SUPPORT			
1	1	14	646.3710	DOUBLER			
1	1	13	646.3110	CHANNEL			
9	35	16	63	12	6011624	LOCKNUT	
18	116	16	134	11	6011607	WASHER	
				10	646.3411	RH VIPER DEFLECTOR	
				9	646.3410	LH VIPER DEFLECTOR	
				8	646.3513	STRUT	
				7	646.3512	STRUT	
				6	646.3511	STRUT	
				5	646.3510	STRUT	
				2	646.3810	BRACKET	
				3	646.3910	DEFLECTOR	
				2	646.3001	LOWER CUTTER ASSY	
				1	646.3301	UPPER CUTTER ASSY	
X				646.4004	FIXED PROVISIONS KIT		
X				646.4003	ONLY CUTTER NOT VERSATILE		
X				646.4002	ADJUSTABLE VERSATILE		
X				646.4001	AS350 CABLE CUTTERS KIT		
4004	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC

DOCUMENTS EFFECTED:

MDL INSTALL INSTRUC ICA BOM

CHANGE CATEGORY
 MAJOR MINOR

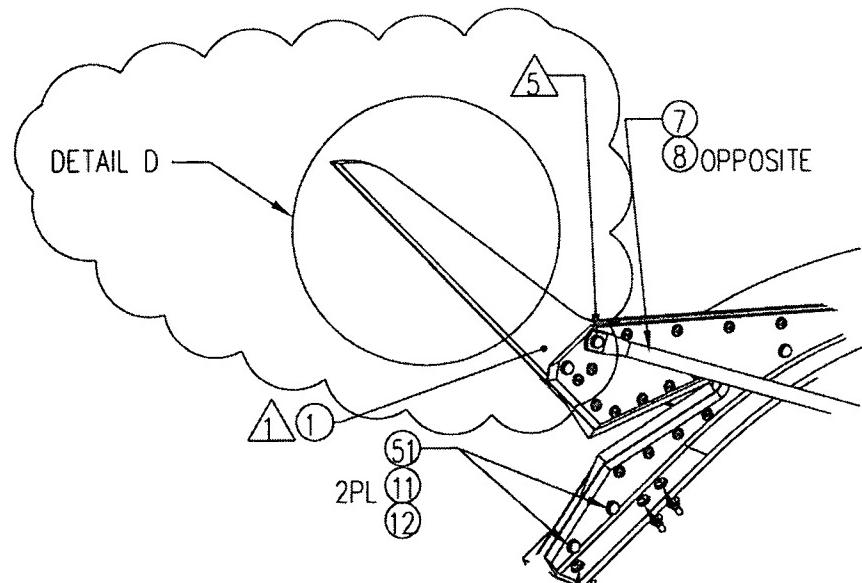
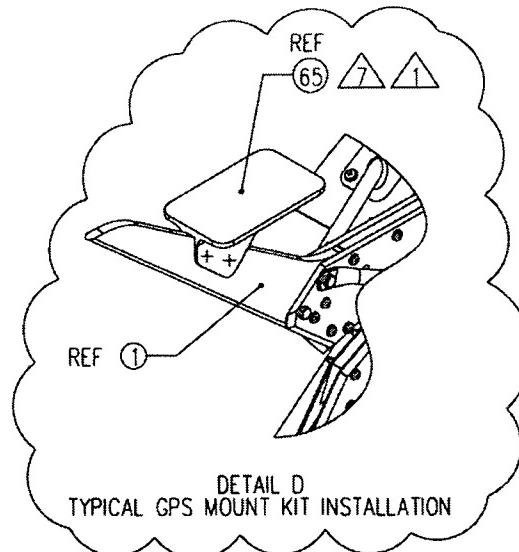
DER REVIEW REQUIRED
 YES NO

92898

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03046				SHEET 1	OF 1
	DWG NO. 646.4000	REV: A	PREPARED BY J. JACKSON	DATE: 01/24/11	EFFECT ON DWG	
	DWG TITLE: AS350 CABLE CUTTERS KIT					
	APPROVED BY: ENGR <i>P. Branci</i>	MFG <i>David Parker</i>	QC <i>Thomas Hayes</i>	EFF: NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED GPS MOUNT KIT, F/N 65. REVISED DRAWING VIEWS. ADDED NOTE 7.				

SHEET 1, ZONE B1 IS:

AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A4 IS:SHEET 2, ZONE B2 IS:

F/N	TC	PART NUMBER	REF	GPS MOUNT KIT		
			.4001	DESCRIPTION	MATERIAL	SPECIFICATION
QTY					CHANGE CATEGORY	DER REVIEW REQUIRED
DOCUMENTS EFFECTED: <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR					YES	<input checked="" type="checkbox"/> NO

92898

NOTES:

- AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- INSTALL F/N 14 WITH F/N 52 & 53
- 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMASTER-CARR P/N 75935A651
- 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- REUSE FASTENERS FROM F/N 1
- USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT

DETAIL A

DETAIL C

646.4002

646.4001

DETAIL B

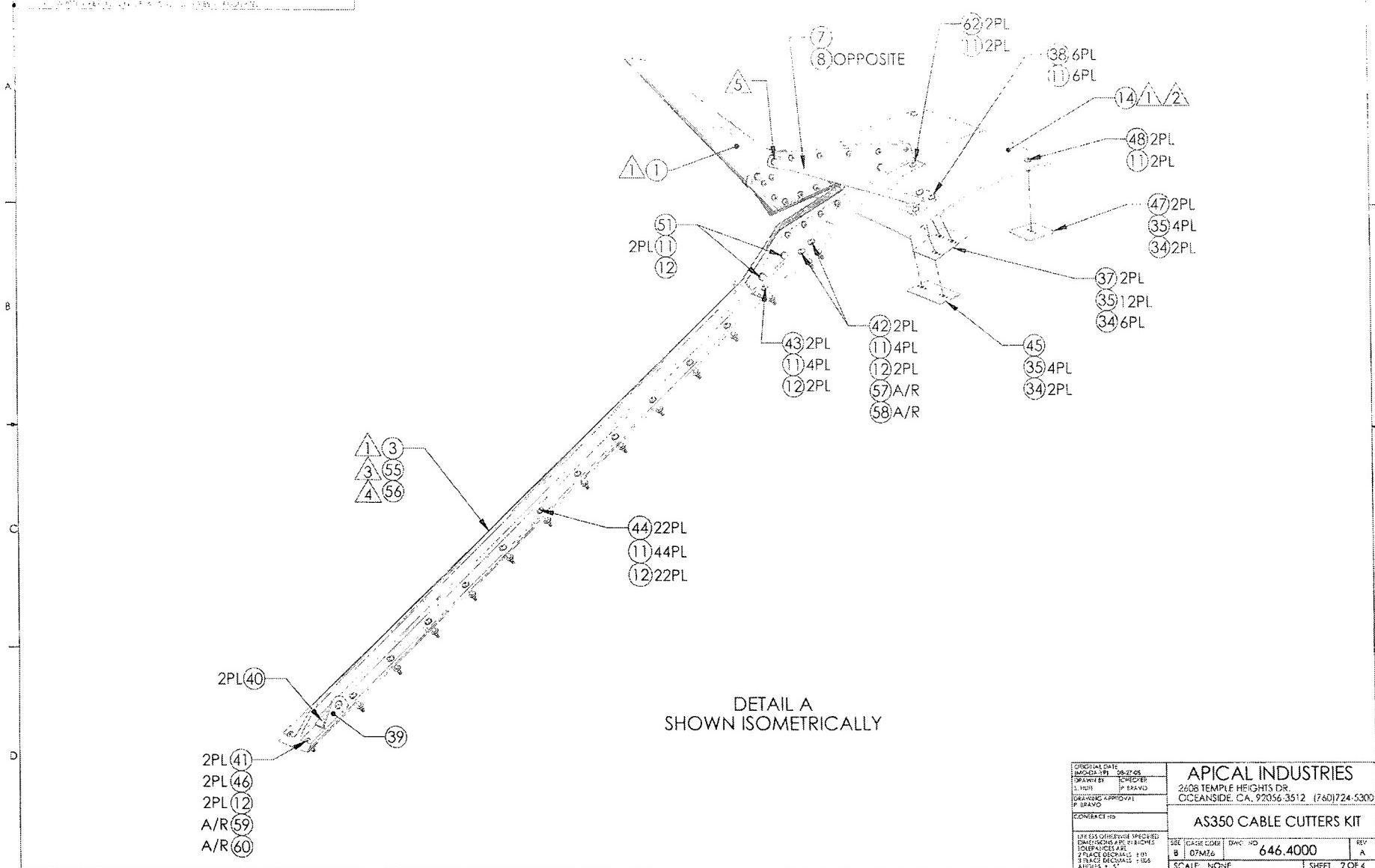
QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
6	64	601.3151	WASHER	MS2114938MP	
2	63	601.2911	SCREW	MS2469155	
2	62	601.2637	SCREW	MS240911-16	
2	61	601.2763	BOLT	ANG 12A	
1	60	646.3713	SHIM		
4	59	646.3912	SHIM		
1	58	646.3911	SHIM		

ECON(s)

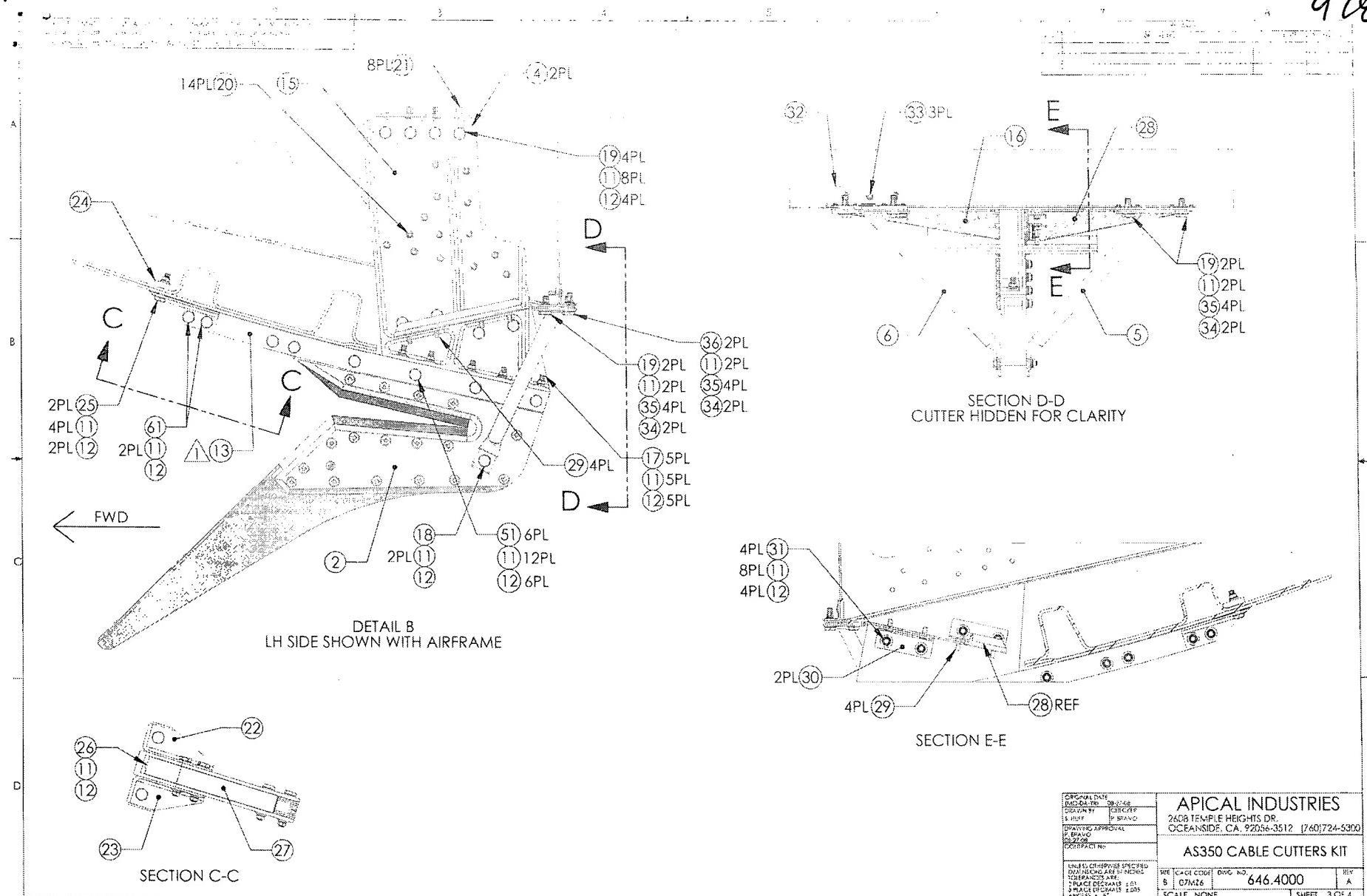
03046, 03079,

QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
1	4	57	646.3910	SHIM	
5	56	601.0113	PRIMER		
55	55	600.0129	VHB TAPE		
1	54	600.0112	SEA ANL		
1	53	600.0551	SAFETY FOIL STRIP		
1	52	601.2890	SAFETY FOIL TAPE		
9	51	601.2826	BOLT	ANS 11A	
2	50	601.2910	SCREW	MS21149116	
2	49	601.2910	SCREW	MS240911-16	
2	48	601.1365	SCREW	MS210911-20	
2	47	646.3719	DOUBLER		
2	46	646.3718	CUSHION WASHER		
1	45	646.3717	DOUBLER		
2	44	601.1948	SCREW	MS210911-20	
2	43	601.1952	SCREW	MS210911-20	
4	42	601.1956	SCREW	MS210911-20	
2	41	601.2829	SCREW	MS210911-20	
2	40	601.2831	RIVET	MS20284AD57	
1	39	646.3716	GAUGE BRACKET		
6	38	601.1953	SCREW	MS210911-17	
2	37	646.3715	STRUT DOUBLER		
2	36	601.2824	BOLE	MS210911-20	
36	35	601.2277	RIVET	MS20284AD57	
18	34	600.3795	NUTPLATE	MS210911-20	
3	33	601.2565	RIVET	MS20284AD57	
1	32	646.3813	STRUT BRACKET		
4	31	601.2822	BOLT	ANS 3A	
2	30	646.3812	GUSSET BRACKET		
8	29	601.2524	RIVET	MS20284AD57	
1	28	646.3714	GUSSET		
1	27	646.3610	PILLER		
1	26	601.2830	SCREW	MS210911-20	
2	25	601.2825	BOLT	ANS 6A	
1	24	646.3811	RADIUS BLOCK		
1	23	646.3712	CLIP		
1	22	646.3711	CLIP		
8	21	601.2832	RIVET	MS210911-20	
14	20	601.2020	RIVET	CR32155-3	
10	19	601.2823	BOLT	ANS 6A	
1	18	601.2827	BOLT	ANS 15A	
5	17	601.2912	SCREW	MS210911-20	
1	16	646.3713	GUSSET		
1	15	646.3210	SUPPORT		
1	14	646.3710	DOUBLER		
1	13	646.3110	CHANNEL		
6	12	601.1624	LOCKNUT	MS210911-20	
16	11	601.1627	WASHER	MS210911-20	
1	10	646.3411	RIN WIPER DEFLECTOR		
1	9	646.3410	LH WIPER DEFLECTOR		
1	8	646.3513	STRUT		
1	7	646.3512	STRUT		
1	6	646.3511	STRUT		
1	5	646.3510	STRUT		
2	4	646.3810	BRACKET		
1	3	646.2910	DEFLECTOR		
1	2	646.3301	LOWER CUTTER ASSY		
1	1	646.3301	UPPER CUTTER ASSY		
		646.4002	AS350 WIPER DEFLECTOR KIT		
		646.4001	AS350 CABLE CUTTERS KIT		
1	1				
QTY		FIND #	PART #	DESCRIPTION	MATL. SPEC.
NEXT ASSY(S)				PARTS LIST	
OPEN DATE: 08/21/08 INDEX#111 DRAWN BY: J. REED REV: B APPROVED: J. REED DATE: 08/21/08 CAGE CODE: 07424				APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512. (760)224-5300	
				AS350 CABLE CUTTERS KIT	
QTY		FIND #	PART #	DESCRIPTION	MATL. SPEC.
1	1	646.4000	601.2827	SCREW	ANS 15A
1	1	646.4001	601.2830	SCREW	MS210911-20
1	1	646.4002	601.2825	SCREW	ANS 6A
1	1	646.4003	601.2822	SCREW	ANS 3A
1	1	646.4004	601.2824	SCREW	MS210911-20
1	1	646.4005	601.2826	SCREW	MS20284AD57
1	1	646.4006	601.2828	SCREW	MS210911-20
1	1	646.4007	601.2831	RIVET	MS20284AD57
1	1	646.4008	601.2832	RIVET	MS210911-20
1	1	646.4009	601.2833	RIVET	MS210911-20
1	1	646.4010	601.2834	RIVET	MS210911-20
1	1	646.4011	601.2835	RIVET	MS210911-20
1	1	646.4012	601.2836	RIVET	MS210911-20
1	1	646.4013	601.2837	RIVET	MS210911-20
1	1	646.4014	601.2838	RIVET	MS210911-20
1	1	646.4015	601.2839	RIVET	MS210911-20
1	1	646.4016	601.2840	RIVET	MS210911-20
1	1	646.4017	601.2841	RIVET	MS210911-20
1	1	646.4018	601.2842	RIVET	MS210911-20
1	1	646.4019	601.2843	RIVET	MS210911-20
1	1	646.4020	601.2844	RIVET	MS210911-20
1	1	646.4021	601.2845	RIVET	MS210911-20
1	1	646.4022	601.2846	RIVET	MS210911-20
1	1	646.4023	601.2847	RIVET	MS210911-20
1	1	646.4024	601.2848	RIVET	MS210911-20
1	1	646.4025	601.2849	RIVET	MS210911-20
1	1	646.4026	601.2850	RIVET	MS210911-20
1	1	646.4027	601.2851	RIVET	MS210911-20
1	1	646.4028	601.2852	RIVET	MS210911-20
1	1	646.4029	601.2853	RIVET	MS210911-20
1	1	646.4030	601.2854	RIVET	MS210911-20
1	1	646.4031	601.2855	RIVET	MS210911-20
1	1	646.4032	601.2856	RIVET	MS210911-20
1	1	646.4033	601.2857	RIVET	MS210911-20
1	1	646.4034	601.2858	RIVET	MS210911-20
1	1	646.4035	601.2859	RIVET	MS210911-20
1	1	646.4036	601.2860	RIVET	MS210911-20
1	1	646.4037	601.2861	RIVET	MS210911-20
1	1	646.4038	601.2862	RIVET	MS210911-20
1	1	646.4039	601.2863	RIVET	MS210911-20
1	1	646.4040	601.2864	RIVET	MS210911-20
1	1	646.4041	601.2865	RIVET	MS210911-20
1	1	646.4042	601.2866	RIVET	MS210911-20
1	1	646.4043	601.2867	RIVET	MS210911-20
1	1	646.4044	601.2868	RIVET	MS210911-20
1	1	646.4045	601.2869	RIVET	MS210911-20
1	1	646.4046	601.2870	RIVET	MS210911-20
1	1	646.4047	601.2871	RIVET	MS210911-20
1	1	646.4048	601.2872	RIVET	MS210911-20
1	1	646.4049	601.2873	RIVET	MS210911-20
1	1	646.4050	601.2874	RIVET	MS210911-20
1	1	646.4051	601.2875	RIVET	MS210911-20
1	1	646.4052	601.2876	RIVET	MS210911-20
1	1	646.4053	601.2877	RIVET	MS210911-20
1	1	646.4054	601.2878	RIVET	MS210911-20
1	1	646.4055	601.2879	RIVET	MS210911-20
1	1	646.4056	601.2880	RIVET	MS210911-20
1	1	646.4057	601.2881	RIVET	MS210911-20
1	1	646.4058	601.2882	RIVET	MS210911-20
1	1	646.4059	601.2883	RIVET	MS210911-20
1	1	646.4060	601.2884	RIVET	MS210911-20
1	1	646.4061	601.2885	RIVET	MS210911-20
1	1	646.4062	601.2886	RIVET	MS210911-20
1	1	646.4063	601.2887	RIVET	MS210911-20
1	1	646.4064	601.2888	RIVET	MS210911-20
1	1	646.4065	601.2889	RIVET	MS210911-20
1	1	646.4066	601.2890	RIVET	MS210911-20
1	1	646.4067	601.2891	RIVET	MS210911-20
1	1	646.4068	601.2892	RIVET	MS210911-20
1	1	646.4069	601.2893	RIVET	MS210911-20
1	1	646.4070	601.2894	RIVET	MS210911-20
1	1	646.4071	601.2895	RIVET	MS210911-20
1	1	646.4072	601.2896	RIVET	MS210911-20
1	1	646.4073	601.2897	RIVET	MS210911-20
1	1	646.4074	601.2898	RIVET	MS210911-20
1	1	646.4075	601.2899	RIVET	MS210911-20
1	1	646.4076	601.2900	RIVET	MS210911-20
1	1	646.4077	601.2901	RIVET	MS210911-20
1	1	646.4078	601.2902	RIVET	MS210911-20
1	1	646.4079	601.2903	RIVET	MS210911-20
1	1	646.4080	601.2904	RIVET	MS210911-20
1	1	646.4081	601.2905	RIVET	MS210911-20
1	1	646.4082	601.2906	RIVET	MS210911-20
1	1	646.4083	601.2907	RIVET	MS210911-20
1	1	646.4084	601.2908	RIVET	MS210911-20
1	1	646.4085	601.2909	RIVET	MS210911-20
1	1	646.4086	601.2910	RIVET	MS210911-20
1	1	646.4087	601.2911	RIVET	MS210911-20
1	1	646.4088	601.2912	RIVET	MS210911-20
1	1	646.4089	601.2913	RIVET	MS210911-20
1	1	646.4090	601.2914	RIVET	MS210911-20
1	1	646.4091	601.2915	RIVET	MS210911-20
1	1	646.4092	601.2916	RIVET	MS210911-20
1	1	646.4093	601.2917	RIVET	MS210911-20
1	1	646.4094	601.2918	RIVET	MS210911-20
1	1	646.4095	601.2919	RIVET	MS210911-20
1	1	646.4096	601.2920	RIVET	MS210911-20
1	1	646.4097	601.2921	RIVET	MS210911-20
1	1	646.4098	601.2922	RIVET	MS210911-20
1	1	646.4099	601.2923	RIVET	MS210911-20
1	1	646.4100	601.2924	RIVET	MS210911-20
1	1	646.4101	601.2925	RIVET	MS210911-20
1	1	646.4102	601.2926	RIV	

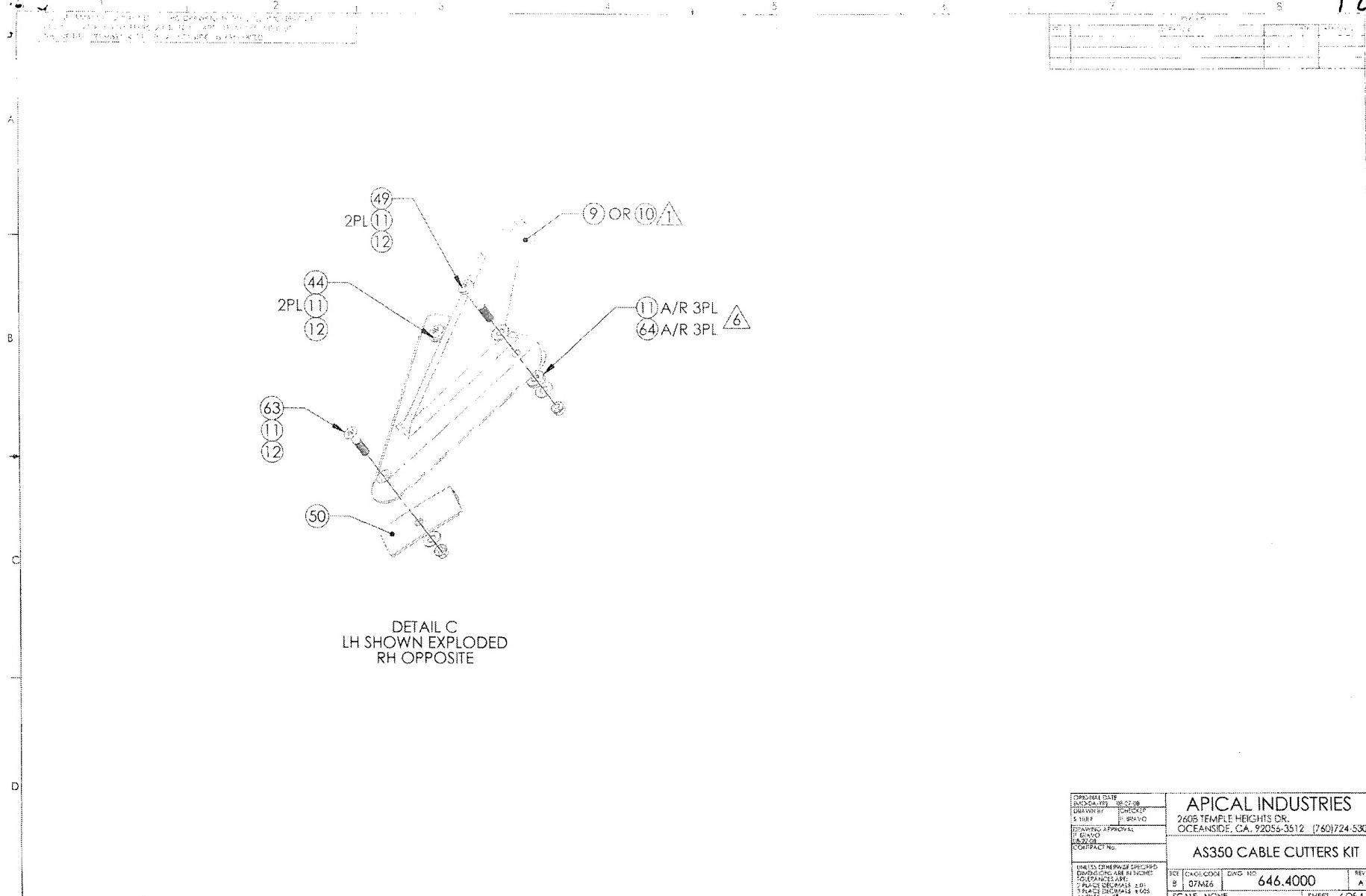
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03046, 03079

4	57	646.3910	SHIM		
5	56	600.1013	PRIMER	A	
8 FT	55	600.0129	VHB TAPE	A	
1	1	600.1012	SEALANT	PR-1425 CLASS 8	
	1	53	MAGNOBOND 6396 PART B		
	1	52	MAGNOBOND 6396 PART A		
	8	51	601.2826	BOLT	AN3-11A
2		50	646.3814	WIPER BRACKET	
2		49	601.2910	SCREW	MS27039-1-18
	2	48	601.1365	SCREW	MS27039-1-10
	2	47	646.3719	DOUBLER	
	2	46	646.3718	CUSTOM WASHER	
	1	45	646.3717	DOUBLER	
2	22	44	601.1948	SCREW	MS27039-1-19
2	43	601.1952	SCREW	MS27039-1-20	
4	42	601.1956	SCREW	MS27039-1-21	
2	41	601.2829	SCREW	MS24694554	
2	40	601.2831	RIVET	MS20426AD5-7	
1	39	646.3716	GAUGE BRACKET		
6	38	601.1953	SCREW	MS27039-1-12	
2	37	646.3715	STRUT DOUBLER		
2	36	601.2824	BOLT	AN3-5A	
36	35	601.2277	RIVET	CC92645-3-02	
18	34	600.0795	NUTPLATE	MS20470AD5-7	
3	33	601.2565	RIVET	MS20470AD5-7	
1	32	646.3813	STRUT BRACKET		
4	31	601.2822	BOLT	AN3-3A	
2	30	646.3812	GUSSET BRACKET		
8	29	601.2564	RIVET	MS20470AD5-6	
1	28	646.3714	GUSSET		
1	27	646.3610	FILLER		
1	26	601.2830	SCREW	MS24694555	
2	25	601.2825	BOLT	AN3-6A	
1	24	646.3811	RADIUS BLOCK		
1	23	646.3712	CLIP		
1	22	646.3711	CLIP		
8	21	601.2832	RIVET	MS20470AD5-5	
14	20	601.2020	RIVET	CR3213-3-3	
10	19	601.2823	BOLT	AN3-4A	
1	18	601.2827	BOLT	AN3-3A	
5	17	601.2912	SCREW	MS24694551	
1	16	646.3713	GUSSET		
1	15	646.3210	SUPPORT		
1	14	646.3710	DOUBLER		
1	13	646.3110	CHANNEL		
6	12	601.1624	LOCKNUT	MS2104213	
16	11	601.1607	WASHER	MS11490320P	
1	10	646.3411	RH WIPER DEFLECTOR		
1	9	646.3410	LH WIPER DEFLECTOR		
1	8	646.3513	STRUT		
1	7	646.3512	STRUT		
1	6	646.3511	STRUT		
1	5	646.3510	STRUT		
2	4	646.3810	BRACKET		
1	3	646.2910	DEFLECTOR		
1	2	646.3001	LOWER CUTTER ASSY		
1	1	646.3301	UPPER CUTTER ASSY		
		646.4002	AS350 WIPER DEFLECTOR KIT		
		646.4001	AS350 CABLE CUTTERS KIT		
4001	4001	FIND #	PART #	DESCRIPTION	MATL
					SPEC.

6	64	601.3151	WASHER	MS11490320P	
2	63	601.2911	SCREW	MS24694553	
2	62	601.2637	SCREW	MS27039-1-16	
2	61	601.2763	BOLT	AN3-12A	
1	60	646.3913	SHIM		
4	59	646.3912	SHIM		
1	58	646.3911	SHIM		
4001	4001	FIND #	PART #	DESCRIPTION	MATL
					SPEC.

Linda Lacelle

From: Dave Barker
Sent: April-15-13 3:27 PM
To: Linda Lacelle; Jean-Luc Menard
Cc: Nigel Forbes; David Duval; Patrick Smith; Eric Downing
Subject: RE: AS350 CCK

92898

Our control # for the rivets used for this kit is: 86033

Thanks,

Dave

From: Linda Lacelle
Sent: Monday, April 15, 2013 9:27 AM
To: Dave Barker; Jean-Luc Menard
Cc: Nigel Forbes; David Duval; Patrick Smith; Eric Downing
Subject: RE: AS350 CCK

Dave,

Pls add the rivets and let me know the batch/serial number of the rivets, I will add it to our w/o.

Thx

Linda

From: Dave Barker
Sent: April-15-13 12:25 PM
To: Jean-Luc Menard; Linda Lacelle
Cc: Nigel Forbes; David Duval; Patrick Smith; Eric Downing
Subject: RE: AS350 CCK

Linda – let me know how you want to process the 3 rivets that we need to add. Cost isn't an issue, but we probably need something in place for traceability.

Thanks,

Dave

From: Dave Barker
Sent: Monday, April 15, 2013 8:54 AM
To: Jean-Luc Menard; Linda Lacelle
Cc: Nigel Forbes; David Duval; Patrick Smith; Eric Downing
Subject: RE: AS350 CCK

#1 – this is correct. This washer is not required. Kit is correct as is.

#2 – we will add the rivets

#3 – we will remove the extras

Thanks,

Dave

NCR: Yes / No

WORK ORDER NON-COMPLIANCE / UPDATE

DQA: Date:

QA Closed: _____ Date: _____

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>		Engineering <input type="checkbox"/>		
				Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>		Quality <input type="checkbox"/>		
				Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>		Other <input type="checkbox"/>		
				Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
Bending	Bend	Grain	Ovalized	Pressure/Forced							
Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure							
Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld							
Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled							
Cuffs	Contamination	Maintenance	Part Moved								
Heat Treat	Countersink	Mislabeled	Positioned Wrong								
Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge								
Ripples in Bend	Drill Holes	Offset	Other								
Torque Waves in Extrusion	Drawing	Out of Calibration									
Turning Sequence	Finish	Out of Sequence									
Wave/Twist in Tube	Folio	Outside Dimensions									

From: Jean-Luc Menard [<mailto:jmenard@dartaero.com>]
Sent: Monday, April 15, 2013 7:06 AM
To: Linda Lacelle; 'David Barker'
Cc: Nigel Forbes; David Duval; Patrick Smith; Eric Downing
Subject: FW: AS350 CCK

Dave/Linda,
I've checked and David has doubled checked also here is what we found/fixed:

#1 64 washers are not missing, 646.4001 does not require these washers, it might have been misread as the "find number" is 64

#2 These rivet were missing in the BOM, they have been added.

#3 Bom was correct, think you/we might of combined items 33 and 40 for a total of 5, part #'s are very similar but not the same.

JL

From: David Duval
Sent: April-15-13 7:45 AM
To: Jean-Luc Menard
Subject: FW: AS350 CCK

Thanks.

David Duval

From: Jean-Luc Menard
Sent: Monday, April 15, 2013 7:38 AM
To: David Duval; Jean-Luc Menard
Subject: Fwd: AS350 CCK

Sent from my iPhone

Begin forwarded message:

From: Linda Lacelle <llacelle@dartaero.com>
Date: 12 April, 2013 5:22:18 PM EDT
To: Dave Barker <DBarker@dartaero.com>
Cc: Patrick Smith <psmith@dartaero.com>, Jean-Luc Menard <jmenard@dartaero.com>, Nigel Forbes <nforbes@dartaero.com>, "dwhite@apicalindustries.com"
<dwhite@apicalindustries.com>, Eric Downing <edowning@dartaero.com>, Shirley Hay
<shay@dartaero.com>
Subject: Re: AS350 CCK

NCR: Yes / No

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS						
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other				
Part No. _____ NCR No. _____											
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio		<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Other	

Thx Dave. Pls add the parts to the kits. I will need the batch or serial numbers to add to the w/o's.

JL pls check the bom to see if it is correct as we have 8 kits to ship out in the next week.
Pat/Eric pls check the kits that are in house.

Thx all

L

Sent from my iPhone

On 2013-04-12, at 5:18 PM, "Dave Barker" <DBarker@dartaero.com> wrote:

Sorry for the late reply, but I just received this from our Quality group. Below are the findings from the AS350 FAI.

Thanks,

Dave

From: Manny Lozano [<mailto:mlozano@apicalindustries.com>]

Sent: Friday, April 12, 2013 2:17 PM

To: dbarker@apicalindustries.com

Cc: dwhite@apicalindustries.com; 'Andrea Beutler'; 'Jesus Vargas'; Jason Gardiner

Subject: AS350 CCK

The following issues were found during the AS350 Cable Cutters Kit Inspection:

1. 64 Washers are missing. P/N 601.3151 Standard P/N NAS1149F0363P
2. 3 Rivets are missing. P/N 601.2565 Standard P/N: MS20470AD5-7
3. 5 Rivets P/N 601.2831 Standard P/N: MS20426AD5 - 7 were delivered but current drawing BOM call only for a quantity of 2.

Please let me know if we are going to rework (we have the hardware in-house), or how to proceed to correct the three issues.

M. Lozano

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS					
			Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other			
Part No. _____		NCR No. _____								
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector	
Doc/Data										
Equip/Tooling										
Operator										
Material										
Setup										
Other										
Process										
Supplier										
Training										
Unapproved										
FAULT CATEGORY										
Landing Gear	General									
	Bending	Bend	Grain	Ovalized	Pressure/Forced					
	Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure					
	Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect	Weld					
	Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled					
	Cuffs	Contamination	Maintenance	Part Moved						
	Heat Treat	Countersink	Mislabeled	Positioned Wrong						
	Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge	Other					
	Ripples in Bend	Drill Holes	Offset							
	Torque Waves in Extrusion	Drawing	Out of Calibration							
	Turning Sequence	Finish	Out of Sequence							
	Wave/Twist in Tube	Folio	Outside Dimensions							